



analog RF "radio frequency" simulation "non-linear" Search

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[PDF] ► A frequency-domain, Volterra series-based behavioral simulation tool for RF ...

I Vassiliou, A Sangiovanni-Vincentelli - PROCEEDINGS OF THE IEEE ..., 1999 - Citeseer

... design of analog and mixed-signal systems, atop-down, constraint-driven design methodology for analog circuits has ... a specific pole-zero representation, that can result in very long simulation times. ... a new technique to model and simulate deterministic effects of RF systems, based ...

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[PDF] ► ... simulation for analysis, design, and optimization of opto-electronic, radio frequency

FM Rotella - 2000 - www-tcad.stanford.edu

... boundary conditions in a mixed circuit and device simulation where device physics play a crucial role in high frequency effects in radio frequency devices, radiative recombination ... RF simulation is a relatively new field and circuit models are generally derived from analog ...

Cited by 12 - Related articles - View as HTML

[PDF] ► Introduction to RF simulation and its application

KS Kundert - IEEE Journal of Solid-State Circuits, 1999 - Citeseer

... 1 of 47 Version 2, 23 April 2003 Radio-frequency (RF) circuits exhibit several distinguishing characteristics that make them difficult to simulate using traditional Spice ... BJTs have long been used in high-frequency analog circuits and their models are well suited for RF circuits. ...

Cited by 140 - Related articles - View as HTML - BL Direct - All 31 versions

[PDF] ► Efficient per-nonlinearity distortion analysis for analog and RF circuits

P Li, LT Pileggi - IEEE Transactions on Computer Aided Design of ..., 2003 - Citeseer

... LI AND PILEGGI: EFFICIENT PER-NONLINEARITY DISTORTION ANALYSIS FOR ANALOG AND RF CIRCUITS ... distortions (which are usually the largest distortion components for an RF system ... analysis even though different linearizations might be used in simulation iterations. ...

Cited by 8 - Related articles - View as HTML - BL Direct - All 6 versions

[book] Design, simulation and applications of inductors and transformers for Si RF ICs

AM Niknejad, RG Meyer - 2000 - books.google.com

... Analog circuits and signal processing) Includes bibliographical references and index ... use of on-chip inductive elements (inductors and transformers) in silicon (Si) radio-frequency (RF) integrated circuits ... in a user-friendly software tool ASITIC (Analysis and Simulation of Inductors ...

Cited by 79 - Related articles - BL Direct - All 2 versions

[book] Radio-frequency microelectronic circuits for telecommunication applications

YE Papapanos - 1999 - books.google.com

... concentrates on the design and development of integrated circuits operating in the radio-frequency range, using ... The most popular type of bipolar transistors that it is used in RF IC design is ... In analog electronic systems, the bipolar transistors are usually biased to operate in the ...

Cited by 9 - Related articles - All 2 versions

[PDF] ► Computer-aided analysis of nonlinear microwave analog circuits using frequency- ...

CR Chang - 1990 - people.engr.ncsu.edu

... RF — Radio frequency, VCO — Voltage control oscillator. ... In chapter 4, the arithmetic operator method is verified using the simulation of microwave amplifier circuits. ... Although the meth- ods

for analyzing nonlinear **analog** circuits are varied, they are all based on solving a ...

Cited by 12 - Related articles - View as HTML - All 2 versions

[Adaptive CMOS predistortion linearizer for fiber-optic links- ► psu.edu \[PDF\]](#)

R Sadhwani, B Jalali - Journal of Lightwave Technology, 2003 - opticsinfobase.org

... The low-cost linearizer can reduce the cost or improve the performance of **analog** and multilevel optical links. ... In addition, in **radio frequency (RF)** systems, the input signal amplitude is a small signal () quantity. ... Fig. 2. Predistortion system mathematical **simulation** model. (6) (7) ...

Cited by 27 - Related articles - All 14 versions

[\[PDF\] ► ... system combining knowledge-based techniques with optimization and **simulation**](#)

T Ketonen, P Lounasmaa, JK Nurminen - National Conference on Artificial ..., 1987 - Citeseer

... of our ideas in a project developing a CAD system called RFT (**Radio Frequency Tools**) for ... techniques have been integrated with **simulation** and optimization techniques in an **analog** CAD system. ... Although our application, **RF**-design, is a highly specialized field we believe that ...

Cited by 3 - Related articles - All 7 versions

[\[PDF\] ► An MOS transistor model for **RF** IC design valid in all regions of operation](#)

C Enz, . - IEEE Transactions on Microwave Theory and ..., 2002 - cmbsd.cm nctu.edu.tw

... drain current, but they do not add any poles and are, therefore, invisible for ac **simulation**. ... in turn, moves the operating point of **analog** transistors more and more from strong inversion to ... **RF** MOST are usually biased in forward saturation corresponding to the region below the 45 ...

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